Simulation Tools and Features - Issues

#	Tracker	Status	Priority	Subject	Assignee	Updated
25432	Feature	Closed	Normal	Incorporate and register a custom physics list	Lynn Garren	03/08/2021 02:20 PM
15156	Feature	Closed	High	Modify GENIE Comparisons package to produce Minerva App Plots	Julia Yarba	03/13/2017 12:05 PM
14651	Feature	New	Normal	Begin using CI	Julia Yarba	02/20/2017 12:15 PM
14650	Feature	New	Normal	Multiple configurations	Julia Yarba	02/20/2017 12:15 PM
14649	Feature	New	Normal	Large scale physics validation	Julia Yarba	03/13/2017 12:19 PM
14648	Feature	New	Normal	Consult with CI team about unit tests.	Julia Yarba	02/20/2017 12:13 PM
14647	Feature	New	Normal	Discuss partnerships with CI team	Julia Yarba	03/13/2017 12:06 PM
14646	Feature	New	Normal	Continuous integration	Julia Yarba	03/13/2017 12:19 PM
14645	Feature	New	Normal	Unit test documentation	Julia Yarba	02/20/2017 12:19 PM
14644	Feature	New	Normal	First dozen tests	Julia Yarba	03/23/2017 05:55 PM
14642	Feature	New	Normal	Plan for updating test results	Julia Yarba	02/20/2017 12:18 PM
14641	Feature	New	Normal	Unit tests framework	Julia Yarba	03/23/2017 05:55 PM
14640	Feature	New	Normal	Unit tests repository	Julia Yarba	03/23/2017 05:53 PM
14639	Feature	New	Normal	Unit tests pilot project	Julia Yarba	03/23/2017 05:53 PM
14638	Feature	New	Normal	Unit tests	Julia Yarba	03/23/2017 05:55 PM
14637	Feature	New	Normal	Numerical summary tables	Julia Yarba	01/13/2017 04:49 PM
14636	Feature	New	Normal	Dossier import	Julia Yarba	01/13/2017 04:48 PM
14635	Feature	New	Normal	Dossier export	Julia Yarba	01/13/2017 04:48 PM
14633	Feature	New	Normal	MiniBooNE and T2K apps	Julia Yarba	01/13/2017 04:47 PM
14632	Feature	New	Normal	MINERvA apps	Julia Yarba	03/30/2017 11:12 AM
14631	Feature	New	Normal	Version-to-version regression tests in Comparisons	Julia Yarba	11/23/2016 12:32 PM
14630	Feature	New	Normal	Modify AVS scripting framework to run validation applications	Julia Yarba	03/30/2017 11:12 AM
14629	Feature	Closed	Normal	Establish build procedure	Julia Yarba	02/06/2017 12:26 PM
14628	Feature	New	High	Transition to new Comparisons package	Julia Yarba	03/30/2017 11:12 AM
12508	Feature	Closed	Normal	Start migration of Geant4 validation packages to Root6 and incorporating download of exp.data from Val.Repo	Julia Yarba	08/23/2017 10:54 AM
12157	Feature	Closed	Normal	expand genie/comparison/src/MINERvA Fitting&Val package to include more recent exp.data	Julia Yarba	03/13/2017 12:22 PM
11732	Feature	Closed	Normal	Update GENIE Fitting&Val job configuration SW per agreement on the configuration scheme	Julia Yarba	11/23/2016 11:21 AM
11129	Feature	Closed	Normal	Expand genie/comparisons MINERvA package by adding comparisons vs coherent pion production data	Julia Yarba	01/27/2016 03:53 PM
11122	Feature	Assigned	Normal	expand p+Ta->pbar validation by including exp. data at theta=3.5deg (of the outgoing pbar)	Julia Yarba	12/10/2015 03:40 PM
10714	Feature	New	Normal	Evaluate single sign on service provided by cern to authenticae geant 4 exprt users	Hans-Joachim Wenzel	12/15/2015 03:14 PM

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#	Tracker	Status	Priority	Subject	Assignee	Updated
10666	Feature	Closed	Normal	Implement initial version(s) of the following: common-use data2mc mapper, multi-experiment validation run config; adapt event loop driver, provide (MINERvA-based) multi-experiment application example	Julia Yarba	01/27/2016 03:53 PM
9937	Feature	Closed	Normal	Calculate errors within Geant4	Lucio Santi	12/04/2015 02:40 PM
9852	Feature	Closed	Normal	make genie::utils::app_init::MesgThresholds() handle multiple files	Robert Hatcher	08/31/2015 01:43 PM
9682	Feature	Resolved	Normal	Implement proper search functionalities	Hans-Joachim Wenzel	05/03/2016 04:45 PM
9678	Feature	Closed	Normal	Default Button	Rasheed Auguste	12/08/2015 03:07 PM
9677	Feature	Closed	Normal	Implement Default Display	Rasheed Auguste	12/08/2015 03:08 PM
9676	Feature	Closed	Normal	Create a list of default tests for each experiment	Rasheed Auguste	12/15/2015 03:12 PM
9675	Feature	Closed	Normal	Default Display	Rasheed Auguste	12/08/2015 03:16 PM
9618	Feature	Closed	Normal	Implement (UPDATE) release highlight materials for Geant4.10.1.p02	Julia Yarba	11/09/2015 10:07 AM
9400	Feature	Closed	Normal	Integration Steps Counter	Soon Jun	12/04/2015 02:45 PM
9331	Feature	Closed	Normal	Implement Experiment Description Table	Rasheed Auguste	12/08/2015 03:15 PM
9330	Feature	Closed	Normal	Populate Experimental Description Table	Rasheed Auguste	12/15/2015 03:14 PM
9329	Feature	Closed	Normal	Add Experimental Description	Rasheed Auguste	12/08/2015 03:13 PM
9325	Feature	Closed	Normal	Write code for simulating NuMI Beam Time Structure	Robert Hatcher	02/27/2019 12:18 PM
9324	Feature	Closed	Normal	Allow MINOS to overlay MC on Data	Robert Hatcher	01/14/2016 03:08 PM
9285	Feature	Closed	Normal	enable use of Geant4 10.1.p01+	Hans-Joachim Wenzel	12/08/2015 02:53 PM
9282	Feature	Closed	Normal	Log the number of integration steps performed in each simulation	Nicolas Ponieman	12/04/2015 02:46 PM
9251	Feature	Closed	Normal	Staged Delete	Rasheed Auguste	12/08/2015 03:11 PM
9072	Feature	Rejected	Normal	Develop validation app for new Berger-Sehgal Coherent Pion model	Gabriel Perdue	10/12/2016 01:59 PM
9071	Feature	Closed	Normal	Clean up Alvarez-Ruso Coherent Pion Model	Gabriel Perdue	09/21/2015 09:38 AM
9064	Feature	Closed	Normal	Port non-RooMUHistos part of MINERvA validation app into GENIE "comparisons"	Julia Yarba	11/09/2015 10:10 AM
9063	Feature	Closed	Normal	Implement common-use event loop driver SW component for the GENIE "comparisons"	Julia Yarba	11/09/2015 10:10 AM
9062	Feature	Closed	Normal	port MINERvA validation package into the "comparisons" (sub)structure of GENIE	Julia Yarba	11/09/2015 10:11 AM
9057	Feature	Closed	Normal	implement initial version of I/O infrastructure for the GENIE ReWeight domain	Julia Yarba	11/09/2015 10:11 AM
8531	Feature	Closed	Normal	Port Berger-Sehgal into integration branch (trunk)		06/05/2015 04:23 PM
8373	Feature	Closed	Normal	Expand GENIE pdg table to include Gd	Robert Hatcher	04/20/2015 12:05 PM
8372	Feature	Closed	Normal	Implement pilot app (incl. necessary infrastructure based on DataComp/Base/GExModel) to process MINERvA data and MC	Julia Yarba	04/20/2015 12:08 PM
8336	Feature	Resolved	Normal	provide undo delete feature	Hans-Joachim Wenzel	07/15/2015 10:40 AM
8330	Feature	Closed	Normal	check input data on the edit test pages	Rasheed Auguste	12/08/2015 02:40 PM
8328	Feature	Closed	Normal	grouping by release in the edit/delete pages	Hans-Joachim Wenzel	12/15/2015 03:15 PM
8321	Feature	Closed	Normal	staging of delete	Hans-Joachim Wenzel	07/15/2015 10:05 AM

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#	Tracker	Status	Priority	Subject	Assignee	Updated
8248	Feature	Assigned	Normal	Argon de-ex and low-Energy x-sec validation app	Gabriel Perdue	05/02/2016 01:44 PM
8247	Feature	Closed	Normal	Clean-up Argon de-excitation code	Gabriel Perdue	05/02/2016 01:44 PM
8246	Feature	Assigned	Normal	Check Strumia and Vissani on Argon	Gabriel Perdue	05/02/2016 01:45 PM
8240	Feature	Assigned	Normal	notification / quality reporting	Julia Yarba	09/21/2015 09:45 AM
8239	Feature	Assigned	Normal	push GENIE after successful build to CVMFS	Tomasz Golan	12/02/2015 06:10 PM
8238	Feature	Closed	Normal	Write a script to populate CVMFS with GENIE 3rd party codes	Robert Hatcher	06/10/2015 05:23 PM
8237	Feature	Assigned	Normal	Resolve CVMFS permissions and usage model	Tomasz Golan	12/02/2015 06:16 PM
8089	Feature	Closed	Normal	allow g4 collaborators to securely delete selected tests from web application	Hans-Joachim Wenzel	06/18/2015 02:22 PM
8088	Feature	Closed	Normal	release highlights	Hans-Joachim Wenzel	06/18/2015 02:23 PM
8072	Feature	Closed	Normal	Update documentation on the MINERvA validation app	Julia Yarba	06/04/2015 04:57 PM
8071	Feature	Closed	Normal	Commit initial validation/MINERvA development to the official GENIE SVN repo	Julia Yarba	11/09/2015 10:11 AM
8070	Feature	Closed	Normal	Start adapting MINERvA validation app to Tuning interface	Julia Yarba	04/20/2015 12:09 PM
8069	Feature	Closed	Normal	Explore Tuning package (new addition to GENIE)	Julia Yarba	04/20/2015 12:09 PM
8068	Feature	Closed	Normal	Explore the proposed Tuning package and start adapting to it validation/MINERvA package	Julia Yarba	11/09/2015 10:12 AM
8063	Feature	Resolved	Urgent	Configure http logging to central logger to fulfile requirement for exemption	Hans-Joachim Wenzel	07/15/2015 10:42 AM
8042	Feature	Closed	Normal	Validate Geant4.10.0-p04	Julia Yarba	04/20/2015 12:19 PM
8041	Feature	Closed	Normal	Validate Geant4.10.1-ref02	Julia Yarba	04/20/2015 12:20 PM
8013	Feature	Closed	Normal	add data for neutron production in mu- capture on various nuclear targets (from P.Singer)	Julia Yarba	05/06/2015 11:13 AM
7958	Feature	Closed	Normal	Add data on gamma+N	Julia Yarba	05/06/2015 11:16 AM
7957	Feature	Closed	Normal	Add NA49 data on p+H to proton/pbar/neutron/K's	Julia Yarba	05/06/2015 11:17 AM
7956	Feature	Closed	Normal	Add K+/pi+ spectra from NA61; also add p+C to K+ data	Julia Yarba	05/06/2015 11:19 AM
7937	Feature	Closed	Normal	Improve GENIE validation/MINERvA application	Julia Yarba	04/20/2015 12:11 PM
7936	Feature	Closed	Normal	Export GENIE validation- and automation-related developments into v2_9-like environment	Julia Yarba	04/20/2015 10:26 AM
7599	Feature	Rejected	Normal	Establish GENIE CVMFS repository	Gabriel Perdue	04/29/2015 02:48 PM
7496	Feature	Closed	Normal	Fully automated build scripts	Gabriel Perdue	04/29/2015 02:49 PM
7492	Feature	Closed	Normal	Change GENIEHelper::PackSimpleFlux to handling variables in Aux branch	Robert Hatcher	03/16/2015 12:17 PM
7491	Feature	Closed	Normal	Change gnumi2simple_basic.C to fill muparp{xyz}	Robert Hatcher	03/16/2015 12:17 PM
7490	Feature	Closed	Normal	Expand GSimpleNtpFlux support for additional variables	Robert Hatcher	03/16/2015 12:18 PM
7434	Feature	Closed	Normal	Inclusive Eta Production	Robert Hatcher	03/05/2015 03:43 PM
7433	Feature	Closed	Normal	Very high energy additions	Robert Hatcher	03/05/2015 03:43 PM
7431	Feature	Closed	Normal	Single Kaon model	Gabriel Perdue	03/05/2015 03:41 PM
7429	Feature	Closed	Normal	Nowak-Dytman modifications to Resonance Model	Gabriel Perdue	04/20/2015 10:23 AM
7428	Feature	Rejected	Normal	Berger-Sehgal COH Pion (Paper Implementation)	Gabriel Perdue	03/05/2015 03:39 PM

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#	Tracker	Status	Priority	Subject	Assignee	Updated
7426	Feature	Closed	Normal	Bodek-Coopersmith SUSA Model	Gabriel Perdue	03/05/2015 03:39 PM
7425	Feature	Closed	Normal	GENIE 2.9	Gabriel Perdue	04/20/2015 12:06 PM
7422	Feature	Closed	Normal	Integrate tests for new G4PhysListFactory into G4 repository framework	Robert Hatcher	02/27/2019 12:25 PM
7420	Feature	Closed	Normal	Integrate ifdh file handling mechanism into GENIEHelper	Robert Hatcher	02/27/2019 12:11 PM
7416	Feature	Assigned	Normal	follow up on pbar simulation enhancement request	Krzysztof Genser	07/12/2016 10:51 AM
7412	Feature	Rejected	Normal	Add automatic monitoring of the web pages to detect hardware/software mulfunction	Hans-Joachim Wenzel	07/15/2015 10:53 AM
7004	Feature	Closed	Normal	Refactor code related to ShieldingM Physics LIst	Krzysztof Genser	03/10/2015 05:29 PM
7003	Feature	Closed	Normal	Implement labeling of tracks from Hadronic Stopping Processes	Krzysztof Genser	03/10/2015 05:28 PM
6818	Feature	Assigned	Normal	Grid access and permissions	Tomasz Golan	09/21/2015 09:48 AM
6668	Feature	Work in progress	Normal	Re-implement G4PhysListFactory	Robert Hatcher	07/12/2016 10:07 AM
6639	Feature	Closed	Normal	Test the BS model against Berger's NuInt 09 Numbers	Gabriel Perdue	10/12/2016 02:16 PM
6638	Feature	Closed	Normal	Clean up the kinematics doc	Gabriel Perdue	10/12/2016 01:59 PM
6637	Feature	Closed	Normal	Move the bounds of integration into the Rein-Sehgal model.	Gabriel Perdue	09/21/2015 09:42 AM
6636	Feature	Closed	Normal	Finite nucleus mass correction for coherent pion model	Gabriel Perdue	10/12/2016 02:16 PM
6635	Feature	Closed	Normal	Paschos-Schalla bounds of integration for Berger-Sehgal	Gabriel Perdue	05/02/2016 01:38 PM
6593	Feature	Closed	Normal	Berger Sehgal review implementation		10/12/2016 02:16 PM
6542	Feature	New	Normal	Investigate GENIE/Geant interface for handling de-excitation photons	Gabriel Perdue	11/23/2016 11:24 AM
6520	Feature	Closed	Normal	investigate Compton scattering related momentum effect seen by Mu2e	Krzysztof Genser	03/10/2015 05:25 PM
6518	Feature	New	Normal	Allow user to specify the UserPhysicsOptions name/location.		10/05/2015 10:17 AM
6506	Feature	Resolved	Normal	automated upload to database using provided script	Hans-Joachim Wenzel	05/03/2016 04:58 PM
6505	Feature	Closed	Normal	uploading and editing single test via web application	Hans-Joachim Wenzel	05/03/2016 04:52 PM
6504	Feature	Resolved	Normal	uploading of tests	Hans-Joachim Wenzel	05/03/2016 04:51 PM
6503	Feature	Closed	Normal	Expansion of database schema to allow storage of raw experimental/simulation data	Hans-Joachim Wenzel	03/11/2015 10:12 AM
6502	Feature	Closed	Normal	create database statistics web page to display basic statistics	Kelly Barnett	03/11/2015 10:30 AM
6501	Feature	Closed	Normal	Port current web pages from JSP to JSF/primefaces	Hans-Joachim Wenzel	03/11/2015 10:23 AM
6500	Feature	Closed	Normal	Port current web pages from JSP to JSF/primefaces	Hans-Joachim Wenzel	05/03/2016 04:50 PM
6497	Feature	Closed	Normal	Implement plots on the fly and allow overlay of selected items.	Hans-Joachim Wenzel	03/11/2015 10:20 AM
6494	Feature	Assigned	Normal	create sensitive Detector which recods energy and cerenkov deposits as a function of time (time slices)	Hans-Joachim Wenzel	06/17/2014 02:44 PM
6483	Feature	Closed	Normal	make sure NuBeam and ShieldingM physics lists are included in v10.1.beta release	Krzysztof Genser	03/10/2015 05:19 PM
6480	Feature	Assigned	Normal	Address missing decays of short-lived resonances in Geant4	Julia Yarba	12/07/2015 04:52 PM
6478	Feature	Assigned	Normal	Factorization and implementation of common-use software for the Geant4 hadronic validation framework	Julia Yarba	12/11/2015 12:11 PM
6476	Feature	Assigned	Normal	improve statitsical analysis tools for the validation framework	Julia Yarba	12/11/2015 12:13 PM

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#	Tracker	Status	Priority	Subject	Assignee	Updated
6462	Feature	Assigned	Normal	Write scripting framework to build and run GENIE for the automated validation suite.	Tomasz Golan	09/21/2015 09:49 AM
6461	Feature	Closed	Normal	Secure hardware resources	Gabriel Perdue	04/20/2015 10:25 AM
6460	Feature	Closed	Normal	Test the new FNAL Build Service with CVMFS	Tomasz Golan	09/21/2015 09:50 AM
6428	Feature	Rejected	Normal	Non-IBD VLE reactions on Carbon	Gabriel Perdue	04/03/2015 01:48 PM
6427	Feature	Rejected	Normal	De-excitation Photons for IBD on Carbon	Gabriel Perdue	04/03/2015 01:47 PM
6426	Feature	Closed	Normal	Check Strumia and Vissani on Carbon	Gabriel Perdue	04/20/2015 10:25 AM
6414	Feature	Assigned	Normal	Validate / Expand VLE Mode	Gabriel Perdue	05/02/2016 01:44 PM
6384	Feature	Closed	Normal	Suppress data "digits" that are distant in time from the Minerva MC particles	Robert Hatcher	01/04/2016 12:20 PM
6383	Feature	Closed	Normal	Add to the MINOS simulation output data sufficient to fill the NtpSRTimeStatus block	Robert Hatcher	01/04/2016 12:20 PM
6382	Feature	Closed	Normal	Provide basic functionality of associating MINOS raw records w/ Minerva MC	Robert Hatcher	01/04/2016 12:19 PM
6381	Feature	Closed	Normal	Provide means of fetching MINOS raw data files for overlays	Robert Hatcher	01/04/2016 12:19 PM
6372	Feature	Closed	Normal	Implement Muon Stopping Target Monitor for Mu2e	Krzysztof Genser	03/10/2015 05:22 PM
6331	Feature	New	Normal	create benchmark for Mu2e pion production		05/22/2014 04:52 PM
6328	Feature	Closed	Normal	implement LAr detector	Hans-Joachim Wenzel	06/09/2015 01:57 PM
6324	Feature	Resolved	Normal	work towards providing api to study systematic errors		04/28/2016 05:17 PM
6323	Feature	Closed	Normal	check in Shielding based physics list	Krzysztof Genser	12/03/2014 10:53 AM
6322	Feature	Closed	Normal	check in NuBeam Physics List	Julia Yarba	03/10/2015 05:21 PM
6238	Feature	New	Normal	Request for detailed control of selected physics process		05/12/2014 01:42 PM
6184	Feature	Assigned	Normal	Evaluation of complex scenarios, such a handling CHORUS data that may include composite flux (nu-nubar) and composite (mixed) target	Julia Yarba	03/11/2015 05:28 PM
6183	Feature	Resolved	Normal	Port/update of the infrastructure for regression testing	Julia Yarba	06/05/2015 10:36 AM
6108	Feature	Assigned	Normal	Add interface to nusoft/nutools-art GENIEHelper class to allow setting the random # generators	Robert Hatcher	05/22/2015 04:28 PM
6107	Feature	Assigned	Normal	Wrap CLHEP random # engine into TRandom3 derived class for use w/ genie::RandomGen	Robert Hatcher	05/22/2015 04:30 PM
6106	Feature	Assigned	Normal	Expand genie::RandomGen to allow externally supplied psuedo-random generator engine	Robert Hatcher	05/01/2014 01:50 PM
6105	Feature	Assigned	Normal	Expand genie::RandomGen to fully support different engines for different phases	Robert Hatcher	05/01/2014 01:47 PM
6104	Feature	Assigned	Normal	Expand features supported by Numerical/RandomGen	Robert Hatcher	05/22/2015 04:28 PM
6079	Feature	Assigned	Normal	Restructure Genie validation/Hadronization package	Julia Yarba	12/11/2015 12:29 PM
6070	Feature	Closed	Normal	create if-simulation mailing list	Daniel Elvira	04/29/2014 05:45 PM
6058	Feature	Closed	Normal	Finish Jacobian calculation for Berger-Sehgal coherent pion model.	Gabriel Perdue	07/07/2014 12:02 PM
6057	Feature	Closed	Normal	Implement importance sampling for Berger-Sehgal coherent pion model.	Gabriel Perdue	06/13/2014 10:15 AM
6056	Feature	Closed	Normal	Synchronize _devel_branch_not_for_users_v280_06jun13_hugh_nd9832nxll3a1 branch and check for changes.	Gabriel Perdue	05/30/2014 03:17 PM
6055	Feature	Closed	Normal	Finish implementation of Berger-Sehgal Coherent Pion Model	Gabriel Perdue	10/12/2016 02:16 PM
6050	Feature	Assigned	Normal	Full Automated Validation Framework	Gabriel Perdue	12/02/2015 06:16 PM

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#	Tracker	Status	Priority	Subject	Assignee	Updated
1745	Feature	Closed	Normal	enhance GNuMIFlux/GSimpleFlux to take vector of strings for filenames	Robert Hatcher	04/29/2014 10:05 AM

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